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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/453,831	12/02/1999	KENRO NAKAMURA	04329.2199	3119

22852 7590 04/11/2002

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EXAMINER

UMEZ ERONINI, LYNETTE T

ART UNIT	PAPER NUMBER
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1765

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DATE MAILED: 04/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

09/453,831

Applicant(s)

NAKAMURA ET AL.

Examiner

Lynette T. Umez-Eronini

Art Unit

1765

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 03 April 2002 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
- b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☒ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: none.

Claim(s) objected to: none.

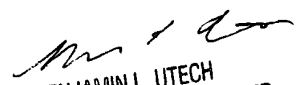
Claim(s) rejected: 11, 12 and 17-22.

Claim(s) withdrawn from consideration: none.

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____.
10. ☐ Other: _____

Applicant's argument that Westmoreland (US 6,143,192) fails to disclose adding a solvent to said first polishing liquid to form a second polishing liquid, wherein said addition of the solvent is carried out upon or immediately before the polishing of the substrate, is unpersuasive.

Westmoreland teaches, "Accordingly, the material of the invention for removing ruthenium metal and/or ruthenium dioxide includes an amount of ceric ammonium nitrate. The material of the invention may be, for example, a solution of ceric ammonium nitrate" (column 3, lines 42-44), which is the same as applicant's first polishing liquid. "The material may be in the form of a liquid etchant solution, and, in one form, may be an aqueous solution wherein ceric ammonium nitrate and, optionally, other solutes, are dissolved in liquid water" (column 3, lines 44-49), which suggests that the (first polishing liquid) material can be dissolved thereby making a solution that differs from the said material (first polishing solution), which reads on forming a second polishing liquid. Westmoreland further teaches, "the ceric ammonium nitrate material . . . whether in solution form or otherwise, also may be used as an active chemical component of a slurry in a planarization process for planarizing a surface (same as applicant's substrate surface)" (column 5, lines 10-13), which suggests that a polishing solution has been formed, then is used to planarize a surface, and reads on, said addition of the solvent is carried out upon or immediately before the polishing of the substrate.


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